## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

- 1. (Currently amended) A method for preventing or reducing adhesion formation between tissue surfaces in a vertebrate subject, comprising administering to the subject an effective amount of at least one protease inhibitor to a site on a tissue surface for a period of time sufficient to prevent or reduce adhesion formation.
- 2. (Original) A method according to claim 1, wherein said protease inhibitor is an inhibitor of a serine protease.
- 3. (Original) A method according to claim 2, wherein said inhibitor of a serine protease is an inhibitor of a chymotrypsin-like serine protease.
- 4. (Original) A method according to claim 3, wherein said inhibitor of a chymotrypsin-like serine protease is an inhibitor of a chymase.
- 5. (Original) A method according to claim 4, wherein said inhibitor of a chymase is a peptidyl derivative of aryl diesters of α-aminoalkylphosphonic acids.
- 6. (Original) A method according to claim 4, wherein said inhibitor of a chymase is Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub>.

- 7. (Original) A method according to claim 4, wherein said inhibitor of a chymase is an enantiomerically enriched preparation of Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub>.
- 8. (Original) A method according to claim 7, wherein Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub>-A comprises greater than 50% by weight of the total Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub> in said enantiomerically enriched preparation.
- 9. (Original) A method according to claim 7, wherein Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub>-A comprises greater than 80% by weight of the total Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub> in said enantiomerically enriched preparation.
- 10. (Original) A method according to claim 7, wherein Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub>-A comprises greater than 95% by weight of the total Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub> in said enantiomerically enriched preparation.
- 11. (Original) A method according to claim 1, wherein said protease inhibitor is administered to said subject before, during or after a surgical procedure.
- 12. (Original) A method according to claim 11, wherein said surgical procedure is an abdominal surgical procedure.
- 13. (Original) A method according to claim 11, wherein said surgical procedure is a thoracic

surgical procedure.

- 14. (Original) A method according to claim 11, wherein said surgical procedure is an ophthalmic surgical procedure.
- 15. (Original) A method according to claim 11, wherein said surgical procedure is a cardiac or gynecologic surgical procedure.
- 16. (Currently amended) A method for preventing or reducing postoperative adhesion formation in the peritoneum of a warm-blooded mammal, comprising administering to said mammal an effective amount of at least one serine protease inhibitor to a site on an organ surface for a period of time sufficient to prevent or reduce adhesion formation.
- 17. (Original) A method according to claim 16, wherein said serine protease inhibitor is an inhibitor of a chymotrypsin-like serine protease.
- 18. (Original) A method according to claim 17, wherein said inhibitor of a chymotrypsin-like serine protease is an inhibitor of a chymase.
- 19. (Original) A method according to claim 18, wherein said inhibitor of a chymase is a peptidyl derivative of aryl diesters of α-aminoalkylphosphonic acids.
- 20. (Original) A method according to claim 18, wherein said inhibitor of a chymase is Suc-Val-

Pro-Phep<sup>P</sup>(OPh)<sub>2</sub>.

- 21. (Original) A method according to claim 18, wherein said inhibitor of a chymase is an enantiomerically enriched preparation of Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub>.
- 22. (Original) A method according to claim 21, wherein Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub>-A comprises greater than 50% by weight of the total Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub> in said enantiomerically enriched preparation.
- 23. (Original) A method according to claim 21, wherein Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub>-A comprises greater than 80% by weight of the total Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub> in said enantiomerically enriched preparation.
- 24. (Original) A method according to claim 21, wherein Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub>-A comprises greater than 95% by weight of the total Suc-Val-Pro-Phe<sup>P</sup>(OPh)<sub>2</sub> in said enantiomerically enriched preparation.
- 25. (Currently amended) A method according to elaims claim 1, wherein said protease inhibitor is administered in conjunction with a delivery vehicle which maintains an effective local concentration of said protease inhibitor at said site, and wherein said delivery vehicle comprises microcapsules or microspheres.
- 26. (Original) A method according to claim 25, wherein said microcapsules or microspheres

comprise a biodegradable polymer selected from the group consisting of poly(\alpha-hydroxy acids), polyhydroxybutyric acids, polycaprolactones, polyorthoesters, polyanhydrides, PACA, polycyanoacrylates, poly(D,L-lactide-co-glycolide) and mixtures thereof.

- 27. (Currently amended) A method according to elaims claim 1, wherein said protease inhibitor is administered in conjunction with a delivery vehicle which maintains an effective local concentration of said protease inhibitor at said site, and wherein said delivery vehicle comprises a film.
- 28. (Original) A method according to claim 27, wherein said film comprise a biodegradable polymer selected from the group consisting of poly(α-hydroxy acids), polyhydroxybutyric acids, polycaprolactones, polyorthoesters, polyanhydrides, PACA, polycyanoacrylates, poly(D,L-lactide-co-glycolide) and mixtures thereof.
- 29. (Currently amended) A method according to elaims claim 1, wherein said protease inhibitor is administered in conjunction with a delivery vehicle which maintains an effective local concentration of said protease inhibitor at said site, and wherein said delivery vehicle comprises liposomes.
- 30. (Currently amended) A method according to elaims claim 1, wherein said protease inhibitor is administered in conjunction with a delivery vehicle which maintains an effective local concentration of said protease inhibitor at said site, and wherein said delivery vehicle comprises a high-molecular weight carrier selected from the group consisting of hyaluronic acid, hydrogels,

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earboxymethleellulose carboxymethylcellulose, dextrans, cyclodextrans, and mixtures thereof.

31. (Original) A method according to claim 1, wherein said vertebrate subject is a human.

32. (Original) A method according to claim 16, wherein said warm-blood mammal is a human.

33. (Currently amended) A pharmaceutical composition for the prevention of adhesion

formation, comprising the at least one protease inhibitor of any one of claims 1-24 and a

pharmaceutically acceptable diluent or excipient.

34. (Currently amended) A pharmaceutical composition according to claim 33, further

comprising a delivery vehicle which maintains an effective local concentration of said protease

inhibitor at a site on an tissue surface for a period of time sufficient to prevent or reduce adhesion

formation.

35. (New) The pharmaceutical composition of claim 33, further comprising a microcapsule or

microsphere with a biodegradable polymer.

36. (New) The pharmaceutical composition of claim 33, wherein said pharmaceutical

composition is in the form of a film and wherein said pharmaceutical composition further

comprises a biodegradable polymer, a liposome, or both.

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